

Single Board Computer Half Size PCI with LAN, VGA, Audio, Video SPC-8620-LVA



* Specifications, color and design of the products are subject to change without notice.

Features

PCI bus compatible half-size CPU board with internal LAN and VGA I/F.

Intel Ultra Low Voltage Celeron 400MHz is standard with the system.(fan-less structure)

Supports high-speed PC2100 DDR SDRAM for a maximum total memory of 512MB.

VIA VT8623/VT8235 chipset

Equip CF card slot (Type I) and the boot from CF card is possible

With USB 2.0 2ch and AC97 code sound function.

5V single power supply operation

Specification

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Item	Section								
Processor	Ultra Low Voltage Intel(R) Celeron Processor in the 479 uFC-BGA package 400MHz, FSB 100MHz.								
Chipset	VIA CLE266 Chipset (VT8623) + (VT8235).								
Cache Size	On-die primary 16-Kbyte instruction cache and 16-Kbyte write-back data cache and on-die second level cache (256-Kbyte for the ULV Celeron Processor 400MHz / 512-Kbyte for the LV Pentium III Processor 800MHz) with advanced transfer cache architecture.								
Memory	Up to 512MB PC2100 DDR SDRAM DIMM. No ECC support.								
Memory Sockets	One 184-pin DDR SDRAM socket for SDRAM in 64MB, 128MB, 256MB and 512MB configurations.								
BIOS	Award BIOS, PnP support Flash EEPROM (256KB) for BIOS update Power management								
Super I/O	Winbond W83697HF.								
Parallel port	One high-speed parallel port, SPP/EPP/ECP mode								
Series Port	Two 16550 UART ports. 9-pin D-SUB connector x 1 (RS-232C x 1) , 10-pin box header connector x 1 (RS-232C/422A/485 x 1) Cable appending of 9-pin D-SUB Baud rate: 50 - 115,200bps (programmable)								
Enhanced IDE	One EIDE port (Primary), up to 2 IDE devices, supports Ultra DMA 33/66/100/133.								
Compact Flash	One CF memory card slot, Type I x 1, for True IDE, connect to the Secondary IDE port.								
FDD Interface	One floppy drives (360KB, 720KB, 1.2MB, 1.44MB, 2.88MB)								
USB Interface	One box-header support 2 USB v2.0 ports								
Watchdog Timer	Supper I/O integrate WDT timer (1 - 255sec) and Software programmable active to Reset.								
Hardware Monitor	Integrate supper I/O W83697HF.								
Keyboard connector	One PS/2 keyboard connector on bracket and share with mouse and one 6-pins box-header for external keyboard.								
Mouse connector	On bracket PS/2 Mouse connector share with keyboard.								
VGA Controller	Integrate VT8623 frame buffer share with system memory.								
VGA Connector	On board 15-pin D-type VGA connector.								
LCD	40 pin TFT LCD panel digital signal connector.								
LAN	One Realtek RT8139D controllers, one RJ-45 connector. Wake On LAN support, Remote Boot-up								
Audio	Support AC97 Codec								
RTC	battery backup by Lithium Battery (CR2450) <table border="1"> <tr> <th>Specification</th><th>CR2450</th></tr> <tr> <td>Nominal Voltage</td><td>3V</td></tr> <tr> <td>Nominal Capacity</td><td>620mAh</td></tr> <tr> <td>Nominal Weight</td><td>6.3g</td></tr> </table> * The backup time of the CR2450 battery is over 8 years at 20°C.	Specification	CR2450	Nominal Voltage	3V	Nominal Capacity	620mAh	Nominal Weight	6.3g
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Nominal Voltage	3V								
Nominal Capacity	620mAh								
Nominal Weight	6.3g								
Form Factor	PCI half size single card.								
Operating System Support	Windows XP Professional/ Home Edition Windows 2000 Professional Windows 98SE Windows NT Workstation Ver.4.0 *1								

*1 USB is not supported.

Mechanical & Environmental

Item	Section
POWER	+5VDC 4.0A max.
CONSUMPTION	+5VSB 1.2A max.
OPERATING TEMPERATURE	0 - 60°C.
STORAGE TEMPERATURE	- 40 - 80°C.
HUMIDITY	10% to 90% RH (no condensation)
BOARD DIMENSION	186mm (L) x 123mm(H) / 7.32inch x 4.80 inch.
BOARD WEIGHT	300 g

Accessories

MEMORY MODULE

PC-MDD256-184	184PIN DDR SDRAM 256MB, PC2100
PC-MDD512-184	184PIN DDR SDRAM 512MB, PC2100

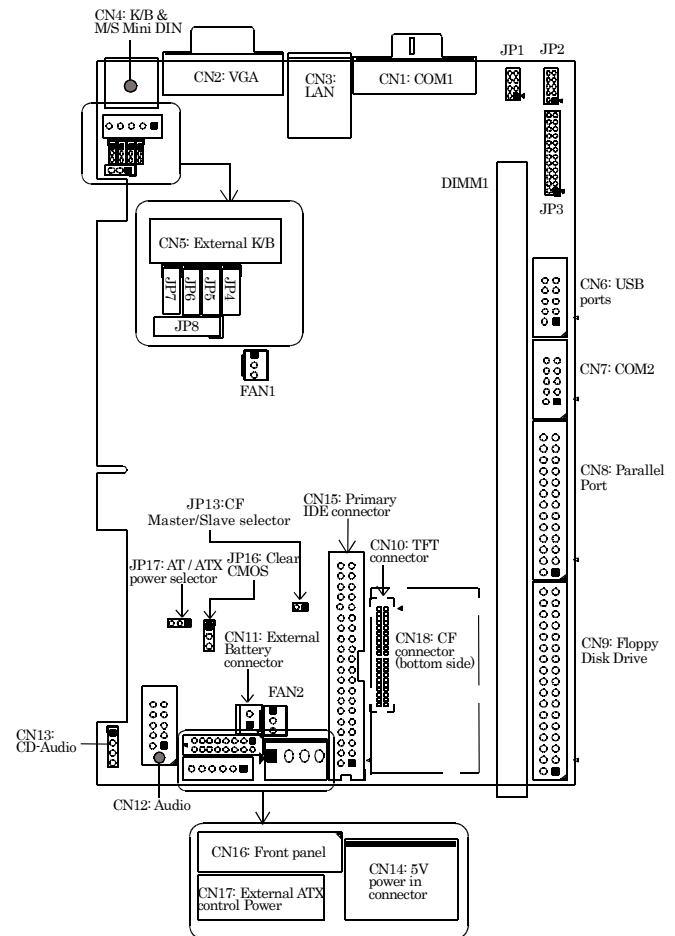
Cable

USB Connector Cable	USB connector cable (shielded)
IPC-LCDEC-01	LCD Interface Board Extension

Packing List

Industrial PCI CPU board (SPC-8620-LVA) ...1
 User's Manual ...1
 Driver disk utility (CD-ROM) ...1
 IDE 66 HDD cable ...1
 FDD cable ...1
 Serial & Parallel cable(with bracket for attaching) ...1
 Audio cable(with bracket for attaching) ...1
 Keyboard converter cable ...1
 Jumper pins (2.0mm) ...6
 IPC Precaution List ...1

Connector & Jumper Location



Block Diagram

